

CLAIMS

[1] A transparent sheet, characterized in that it consists of a transparent flexible composition layer which comprises 500 to 5,000 parts by mass of a liquid material (B) based on 100 parts by mass of a thermoplastic elastomer component (A), and has a total transmittance of 90% or higher at 25°C and at a thickness of 0.5 mm.

[2] The transparent sheet according to Claim 1, comprising a transparent resin layer on at least one surface of said transparent flexible composition layer.

[3] The transparent sheet according to Claim 1, comprising a removable protective film layer on at least one surface of a surface-exposed face among said transparent flexible composition layer and said transparent resin layer.

[4] The transparent sheet according to Claim 1, wherein thickness of said transparent flexible composition layer is 2.0 mm or less, and total thickness is 10 mm or less.

[5] The transparent sheet according to Claim 1, wherein said thermoplastic elastomer component (A) comprises at least one type of elastomer (A-1) selected from the group consisting of a hydrogenated block polymer of a conjugated diene, a hydrogenated block copolymer of an aromatic vinyl compound and a conjugated diene, and an ethylene- α -olefin-based rubber.

[6] The transparent sheet according to Claim 5, wherein said hydrogenated block polymer of a conjugated diene is a hydrogenated block polymer by hydrogenating a block polymer having, in its molecule, at least one butadiene polymer block (I) having a vinyl bond content of 5 to 25% in the block and at least one polymer block (II) having a mass ratio of a conjugated diene to other monomer of (100 to 50)/(0 to 50) and having a vinyl bond content of 25 to 95% by mass.

[7] The transparent sheet according to Claim 5, wherein said thermoplastic elastomer component (A) further comprises other elastomer (A-2).

[8] The transparent sheet according to Claim 1, wherein said liquid material (B) is a liquid material having a kinematic viscosity of not higher than 500 mm²/s at 40°C and being nonvolatile at a temperature between -100 and 50°C.

[9] A method for producing a transparent sheet, characterized by forming a transparent flexible composition layer by molding a transparent flexible composition which comprises 500 to 5,000 parts by mass of a liquid material (B) based on 100 parts by mass of a thermoplastic elastomer component (A), and has a total transmittance of 90% or higher at 25°C and at a thickness of 0.5 mm by an extrusion method, a coating method, a casting method, a press method, an injection molding method or an inflation method.

[10] The method for producing a transparent sheet according to Claim 9, wherein a removable protective film layer is provided by laminating a protective film on at least one surface of said transparent flexible composition layer and said transparent resin layer.

[11] A method for producing a transparent sheet, characterized by laminating a transparent resin layer on at least one surface of a transparent flexible composition layer which comprises 500 to 5,000 parts by mass of a liquid material (B) based on 100 parts by mass of a thermoplastic elastomer component (A), and has a total transmittance of 90% or higher at 25°C and at a thickness of 0.5 mm.

[12] The method for producing a transparent sheet according to Claim 11, wherein a releasable protective film layer is provided by laminating a protective film on at least one surface of said transparent flexible composition layer and said transparent resin layer.